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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR Randy K. Roushall	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8206	
09/625,916		07/26/2000		10002969-1		
22878	7590	06/12/2003				
		OLOGIES, INC.	EXAMINER			
P.O. BOX 7	1599	OPERTY ADMINI	EL SHAMMAA, MARY A			
M/S DL429 LOVELAN)537-0599	ART UNIT	PAPER NUMBER		
	-			2881		
				DATE MAILED: 06/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No.	Applicant(s	900				
		09/625,916						
-	Office Action Summary	Examiner	ROUSHALL Art Unit	ET AL.				
		Mary A. El-Shamn						
D : 16	The MAILING DATE of this communication			ce address				
- Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) days, a r period for reply is specified above, the maximum statutory perior ter to reply within the set or extended period for reply will, by star ely received by the Office later than three months after the ma d patent term adjustment. See 37 CFR 1.704(b). Responsive to communication(s) filed on	N. 1.136(a). In no event, however reply within the statutory minim od will apply and will expire SI tute, cause the application to b illing date of this communication	er, may a reply be timely filed num of thirty (30) days will be considere X (6) MONTHS from the mailing date o	A Abrilan in a new control of the control				
2a)		This action is non-fina	al.					
3) Disposition	Since this application is in condition for allo closed in accordance with the practice under of Claims	wance except for forr	nal matters, prosecution as	to the merits is				
4)🖂	Claim(s) <u>1-20</u> is/are pending in the applicati	on.		·				
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-20</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8) <u> </u>	Claim(s) are subject to restriction and on Papers	or election requireme	ent.					
9)⊠ ⊤	he specification is objected to by the Examir	ner.						
	he drawing(s) filed on <u>26 July 2000</u> is/are: a		to by the Examiner					
·				5(a)				
11) 🗌 T	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
	If approved, corrected drawings are required in r							
12)∐ T	he oath or declaration is objected to by the E							
Priority ur	nder 35 U.S.C. §§ 119 and 120							
13) <u> </u>	Acknowledgment is made of a claim for foreig	an priority under 35 U	.S.C. § 119(a)-(d) or (f)					
	All b) Some * c) None of:		3 (a) (a) ()					
	Certified copies of the priority documer	nts have been receive	ed.					
2	Certified copies of the priority documer							
	Copies of the certified copies of the pricapplication from the International Bethe attached detailed Office action for a lis	ority documents have ureau (PCT Rule 17.	been received in this Natio					
	knowledgment is made of a claim for domes			onal application).				
a) (The translation of the foreign language preknowledgment is made of a claim for domes	ovisional application	has been received.	,, ,				
2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5) ☐ No	erview Summary (PTO-413) Pape tice of Informal Patent Application er:	r No(s) (PTO-152)				
.S. Patent and Trad PTO-326 (Rev.		ction Summary	Part of Paper N	lo 4				



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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: On page 1, line 4 the serial number has been omitted.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Mason (5,712,480).

Regarding claims 1 and 14, Mason discloses in Fig. 2 a data acquisition system (22) and method comprising producing a plurality of data samples from a transient sequence and accumulating corresponding data samples across the transient sequence through two or more parallel accumulation paths (28, 30 – see parallel paths in the figure) (Col. 1, Line 66 through Col. 2, Line 2; Col. 3, Line 60 through Col. 4, Line 2; Col. 4, Lines 8-17; Col. 7, Lines 49-53; Col. 9, Lines 50-53; Col. 11, Lines 30-41; Col. 12, Lines 24-34).

Regarding claim 2, Mason discloses the system further comprising a sampler (66 – according to page 7, line 13 of the Applicant's specification, a high speed flash analog-to-digital

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converter is an example of a sampler) coupled to the accumulator and configured to produce a plurality of data samples from a transient sequence (Col. 1, Lines 59-63; Col. 4, Lines 14-17, 47-56; Col. 5, Lines 41-46; Col. 6, Lines 42-60; Col. 7, Lines 49-53; Col. 9, Lines 25-58; Col. 11, Lines 42-46).

Regarding claims 3 and 13, Mason discloses the sampler comprising an analog-to-digital converter (66) (Col. 1, Lines 59-63; Col. 4, Lines 14-17, 47-56; Col. 5, Lines 41-46; Col. 6, Lines 42-60; Col. 7, Lines 49-53; Col. 11, Lines 42-46).

Regarding claims 4, 5, 12, and 15-18, Mason discloses a controller coupled to the accumulator and configured to cycle the accumulation of data samples through each of the accumulation paths (Col. 3, Lines 49-57).

Regarding claim 6, Mason discloses the accumulation path comprising an adder (296) and a memory (298) (Col. 9, Lines 35-43).

Regarding claim 7, Mason discloses the memory comprising a dual port random access memory (298) (Col. 5, Lines 12-16, 35-38; Col. 7, Lines 7-11; Col. 9, Lines 37-45; Col. 11, Lines 11-16).

Regarding claims 8 and 9, Mason discloses each accumulation path, coupled in series, being configured to produce an output representative of the sum of two inputs (Col. 3, Line 60 through Col. 4, Line 20; Col. 4, Lines 44-63; Col. 5, Lines 22-24; Col. 9, Lines 14-16; Col. 10, Lines 1-5; Col. 11, Lines 42-54; Col. 12, Lines 24-38).

Regarding claim 10, Mason discloses the system further comprising an ion detector (42) (Col. 2, Lines 2-8; Col. 3, Lines 45-65; Col. 4, Lines 30-43).

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Regarding claims 11, 19, and 20, Mason discloses a time-of-flight mass spectrometer (10) comprising an ion detector (42) configured to produce a transient sequence, a sampler (66) configured to produce a plurality of data samples from the transient sequence, and an accumulator (294) coupled to the sampler, comprising two or more accumulation paths and configured to accumulate corresponding data samples across the transient sequence through the different accumulation paths (Col. 1, Line 66 through Col. 2, Line 27; Col. 3, Line 34 through Col. 4, Line 37; Col. 6, Lines 42-44; Col. 9, Lines 35-53; Col. 10, Lines 28-43; Col. 11, Lines 30-52; Col. 12, Lines 24-47).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (5,777,326 – pertaining to a method and apparatus for extending the dynamic range of a data acquisition device), (5,027,072 – pertaining to a data acquisition method used in spectroscopy), (3,937,955 – pertaining to a spectrometer).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary A. El-Shammaa whose telephone number is 703.308.0851. The examiner can normally be reached on M-F (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on 703.308.4116. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9318 for regular communications and 703.872.9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.872.9317.

mae

May 21, 2003

JOHN R. LEE

SUPER SORY PATENT EXAMINER TECHNOLOGY CENTER 2800